Digeranylgeranylglyceryl Phosphate Synthase (Mmarc6_0995) (MmarC6_0995) Methanococcus Maripaludis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Digeranylgeranylglyceryl phosphate synthase (MmarC6_0995), Recombinant Protein
Full Product Name	Recombinant Methanococcus maripaludis Digeranylgeranylglyceryl phosphate synthase (MmarC6_0995)
Product Gene Name	MmarC6_0995 recombinant protein
Product Synonym Names	Recombinant Digeranylgeranylglyceryl phosphate synthase (MmarC6_0995); Digeranylgeranylglyceryl phosphate synthase; DGGGP synthase; DGGGPS EC= 2.5.1.42; (S)-2,3-di-O-geranylgeranylglyceryl phosphate synthase Geranylgeranylglycerol-phosphate geranylgeranyl
Sequence	MDIKAYFELI RLKNCLTASF GAFIGGLIAS YFNISMIDNL ILASIVVFLV CGFGNALNDI YDLKIDKINK PKRPIPSKRI SLGEARIFSY LLVVMGLIIS MFNITCFLMA VLNSIVLQQY ASTYKKNKIV GNLIVAYLTG SVFIFGGIAV GNIDVTIMLF LCALFAMWSR EIIKDYEDIE GDIKEKVISI PIKCGEKSIY IAAFLLVFAV LLSPLPYLFG FFGIYYLISV IFCDLLFLIG IYNLVMNPSK KEAKKASRNI KIVTNLVLIA FLIGSLFK
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degree C. For extended storage, store at -20 or -80 degree C.
Molecular Weight	31,041 Da
Sequence Positions	1-278
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
Chromosome Location	NC_009975.1 (942728..943564)
3D Structure	ModBase 3D Structure for A9A8Y7
Species	Methanococcus maripaludis (strain C6 / BAA-1332)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MmarC6_0995 recombinant protein	MBS1257948 is a recombinant protein targeting MmarC6_0995. Also known as Recombinant Methanococcus maripaludis Digeranylgeranylglyceryl phosphate synthase (MmarC6_0995). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of MmarC6_0995 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MmarC6_0995. It may not necessarily be applicable to this product.

NCBI GI #	159905380
NCBI GeneID	5738898

NCBI Accession #	YP_001549042.1
UniProt Primary Accession #	A9A8Y7
UniProt Related Accession #	A9A8Y7
GenBank Nucleotide #	NC_009975.1
NCBI Official Full Name	(S)-2,3-di-O-geranylgeranylglyceryl phosphate synthase
NCBI Official Symbol	MmarC6_0995
UniProt Protein Name	Digeranylgeranylglyceryl phosphate synthase
UniProt Synonym Protein Names	(S)-2,3-di-O-geranylgeranylglyceryl phosphate synthase; Geranylgeranylglycerol-phosphate geranylgeranyltransferase
UniProt Gene Name	DGGGP synthase
UniProt Synonym Gene Names	DGGGPS
UniProt Entry Name	DGGGP_METM6
NCBI Protein Information	(S)-2,3-di-O-geranylgeranylglyceryl phosphate synthase
UniProt Comments for MmarC6_0995	Function: Prenyltransferase that catalyzes the transfer of the geranylgeranyl moiety of geranylgeranyl diphosphate (GGPP) to the C2 hydroxyl of (S)-3-O-geranylgeranylglyceryl phosphate (GGGP). This reaction is the second ether-bond-formation step in the biosynthesis of archaeal membrane lipids By similarity. HAMAP-Rule MF_01286 Catalytic activity: Geranylgeranyl diphosphate + sn-3-O-(geranylgeranyl)glycerol 1-phosphate = diphosphate + 2,3-bis-O-(geranylgeranyl)glycerol 1-phosphate. HAMAP-Rule MF_01286 Cofactor: Magnesium By similarity. HAMAP-Rule MF_01286 Pathway: Membrane lipid metabolism; glycerophospholipid metabolism. HAMAP-Rule MF_01286 Subcellular location: Cell membrane; Multi-pass membrane protein By similarity HAMAP-Rule MF_01286. Sequence similarities: Belongs to the UbiA prenyltransferase family. DGGGP synthase subfamily.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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